

Notice of Allowability

Application No.

09/894,700

Examiner

Kenneth Tang

Applicant(s)

R. KAKIVAYA ET AL.

Art Unit

2195

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4/17/06.
2. ☒ The allowed claim(s) is/are 1-10, 12, 14-17, 20-32; now renumbered as 1-28.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 6/19/06.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

APPROVED FOR PATENT EXAMINER

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
2. Authorization for this examiner's amendment was given in a telephone interview with Nilesh S. Amin (Reg. No. 58,407) on 6/19/06.
3. Please amend the claims according to the email attachment sent by the Applicant on 6/19/06.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth Tang whose telephone number is (571) 272-3772. The examiner can normally be reached on 8:30AM - 6:00PM, Every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kt
6/19/06


SECTION 101 PATENT EXAMINER
2100

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of:

Applicants(s): Gopala Krishna R. Kakivaya, *et al.*

Examiner: Kenneth Tang

Serial No: 09/894,700

Art Unit: 2195

Filing Date: June 28, 2001

Title: CLASS INITIALIZATION METHOD SEMANTICS

**Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450**

LETTER

Dear Examiner Tang,

Thank you for providing your suggestions regarding amendments to place application 09/894,700 in condition for allowance. Please apply the following amendments via an Examiner's Amendment to claims 1, 15-17, 20, 27, 28, and 31.

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A computer system for mitigating problems associated with automatic execution of initialization code by a processing unit, the system comprising the following computer executable components stored on a computer storage media:

an initialization method activator that calls a class initialization method at a pre-determined execution point; ~~and~~

a deadlock analyzer that determines whether running the class initialization method will produce a deadlock;

a semantic analyzer that analyzes a semantic type associated with the class initialization method, where the semantic analyzer provides information concerning a desired initialization check time to the initialization method activator; and

a domain uniqueness analyzer that analyzes the uniqueness of one or more domains with which the class initialization method and/or the class will interact, where the uniqueness analyzer provides information concerning a desired initialization check time to the initialization method activator.

15. (Currently Amended) A computer readable storage medium containing computer executable components of a system for mitigating problems associated with automatic execution of initialization code, the ~~system~~ computer executable components comprising:

an initialization method activating component that calls the class initialization method at a pre-determined execution point; ~~and~~

a deadlock analyzer that determines whether running the class initialization method will produce a deadlock; and

a semantic analyzer that analyzes a semantic type associated with the class initialization method, where the semantic analyzer provides information concerning a desired initialization check time to the initialization method activating component, the semantic type is one of "exact" and "before field initialization".

16. (Currently Amended) A computer readable storage medium containing computer executable components of a system for mitigating problems associated with automatic execution of initialization code, the ~~system~~ computer executable components comprising:

- a semantic analyzing component that determines a semantic type associated with the initialization method;

- a domain uniqueness analyzing component that determines a uniqueness type associated with one or more application domains with which the class will interact;

- a deadlock analyzing component that determines whether calling the initialization method will create a deadlock and resolves the deadlock; and

- an initialization method activating component that calls the initialization method at a pre-determined execution point, where the pre-determined execution point depends on, at least in part, the semantic type and the domain uniqueness.

17. (Currently Amended) A computerized method for mitigating problems associated with automatic execution of class initialization code, the method comprising:

- determining whether a class has an initializing method;

- determining when the initializing method should be run;

- associating initialization check code with one or more components associated with a runtime, the check code determines whether a class is initialized;

- determining whether calling the initializing method will generate a deadlock and if calling the initializing method will generate a deadlock, resolving the deadlock; and

- analyzing semantic information associated with the initializing method, the semantic information comprises an identifier that identifies whether the initializing method desires “exact” or “before field initialization” behavior; and

- calling the class initializing method.

20. (Currently Amended) The method of claim 17 [[19]], where determining when the initializing method should be run further comprises analyzing domain uniqueness information associated with one or more domains with which the class initialization code will interact.

27. (Currently Amended) A computer readable storage medium containing computer executable instructions that perform a method for mitigating problems associated with automatic execution of class initialization code, the method comprising:

- determining whether a class has an initializing method;
- determining when the initializing method should be run;
- inserting initialization check code into one or more components associated with a runtime;
- determining whether calling the initializing method will generate a deadlock and if calling the initializing method will generate a deadlock, resolving the deadlock; ~~and~~
 - analyzing semantic information associated with the initializing method, the semantic information comprises an identifier that identifies whether the initializing method desires “exact” or “before field initialization” behavior; and
- calling the class initializing method.

28. (Currently Amended) A computerized method for mitigating problems associated with automatic execution of class initialization code, the method comprising:

- determining whether a class has an initializing method;
- determining when the initializing method should be run, where determining when the initializing method should be run comprises:
 - analyzing semantic information associated with the initializing method, where the semantic information comprises an identifier that identifies whether the initializing method desires “exact” or “before field initialization” behavior; and
 - analyzing domain uniqueness information associated with one or more domains with which the initializing method will interact, where the domain uniqueness information comprises an identifier that identifies whether the initializing method is operating in a “normal” or a “domain neutral” environment;
- associating initialization check code with one or more components associated with a runtime;
- determining whether calling the initializing method will generate a deadlock;
- resolving the deadlock; and
- calling the class initializing method.

31. (Currently Amended) A computer readable storage medium containing computer executable instructions for performing a method for mitigating problems associated with automatic execution of class initialization code, the method comprising:

- determining whether a class has an initializing method;

- determining when the initializing method should be run, where determining when the initializing method should be run comprises:

- analyzing semantic information associated with the initializing method, where the semantic information comprises an identifier that identifies whether the initializing method desires “exact” or “before field initialization” behavior; and

- analyzing domain uniqueness information associated with one or more environments with which the initializing method will interact, where the domain uniqueness information comprises an identifier that identifies whether the initializing method will interact with a “normal” or a “domain neutral” environment;

- associating initialization check code with one or more components associated with a runtime;

- determining whether calling the initializing method will generate a deadlock;

- resolving the deadlock; and

- calling the class initializing method.

CONCLUSION

The present application is believed to be in condition for allowance in view of the above comments and amendments. A prompt action to such end is earnestly solicited.

In the event any fees are due in connection with this document, the Commissioner is authorized to charge those fees to Deposit Account No. 50-1063 [MSFTP245US].

Should the Examiner believe a telephone interview would be helpful to expedite favorable prosecution, the Examiner is invited to contact applicants' undersigned representative at the telephone number below.

Respectfully submitted,

AMIN & TUROCY, LLP

/Nilesh S. Amin/

Nilesh S. Amin

Reg. No. 58,407

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